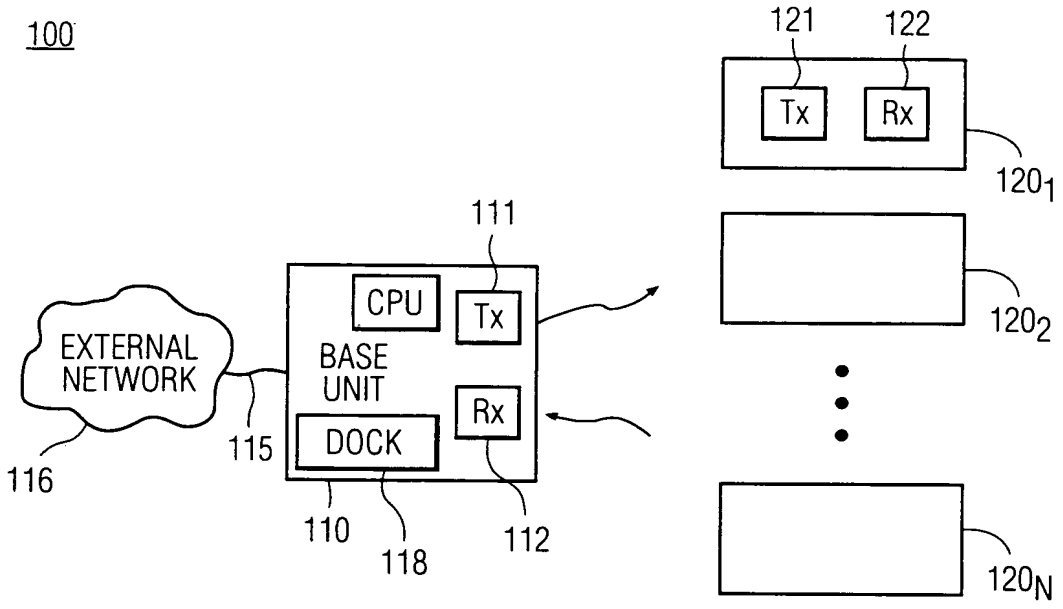
100
121
122
Tx
Rx
120_1
111
CPU
Tx
EXTERNAL NETWORK
BASE UNIT
Rx
DOCK
115
116
110
118
112
120_2
120_N

FIG. 1

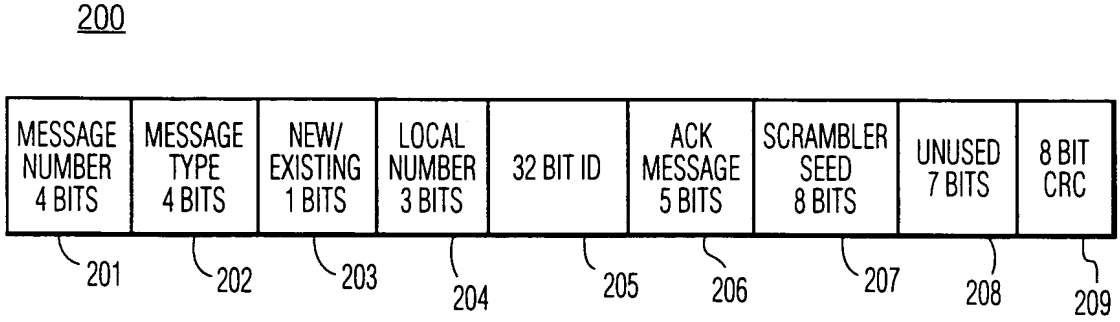
200
MESSAGE NUMBER 4 BITS
MESSAGE TYPE 4 BITS
NEW/ EXISTING 1 BITS
LOCAL NUMBER 3 BITS
32 BIT ID
ACK MESSAGE 5 BITS
SCRAMBLER SEED 8 BITS
UNUSED 7 BITS
8 BIT CRC
201
202
203
204
205
206
207
208
209

FIG. 2

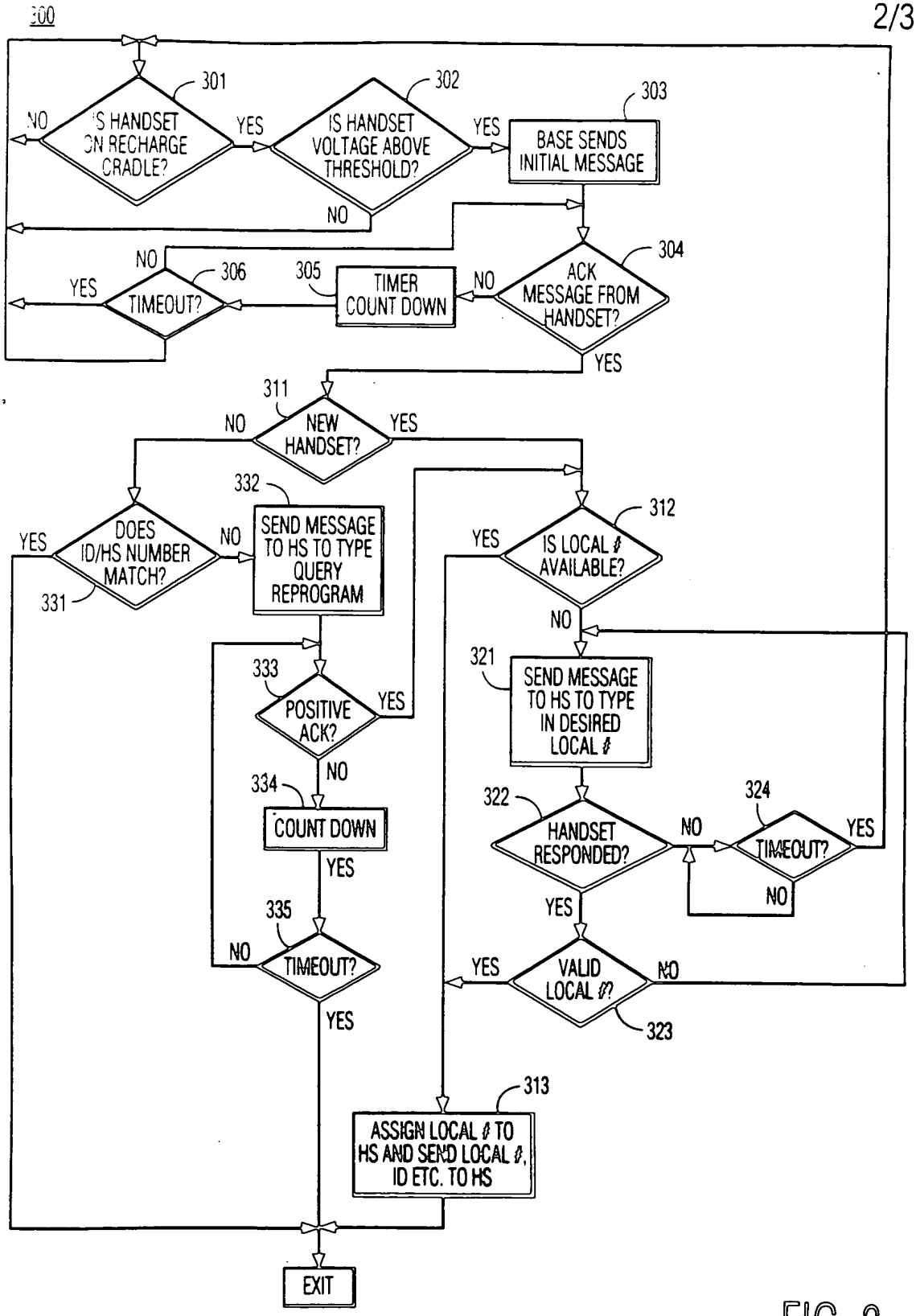
300
301
IS HANDSET ON RECHARGE CRADLE?
NO
YES
302
IS HANDSET VOLTAGE ABOVE THRESHOLD?
YES
NO
303
BASE SENDS INITIAL MESSAGE
304
ACK MESSAGE FROM HANDSET?
NO
YES
305
TIMER COUNT DOWN
306
TIMEOUT?
NO
YES
311
NEW HANDSET?
NO
YES
312
IS LOCAL # AVAILABLE?
YES
NO
321
SEND MESSAGE TO HS TO TYPE IN DESIRED LOCAL #
322
HANDSET RESPONDED?
NO
YES
324
TIMEOUT?
NO
YES
323
VALID LOCAL #?
YES
NO
313
ASSIGN LOCAL # TO HS AND SEND LOCAL #, ID ETC. TO HS
331
DOES ID/HS NUMBER MATCH?
YES
NO
332
SEND MESSAGE TO HS TO TYPE QUERY REPROGRAM
333
POSITIVE ACK?
YES
NO
334
COUNT DOWN
YES
335
TIMEOUT?
NO
YES
EXIT

FIG. 3

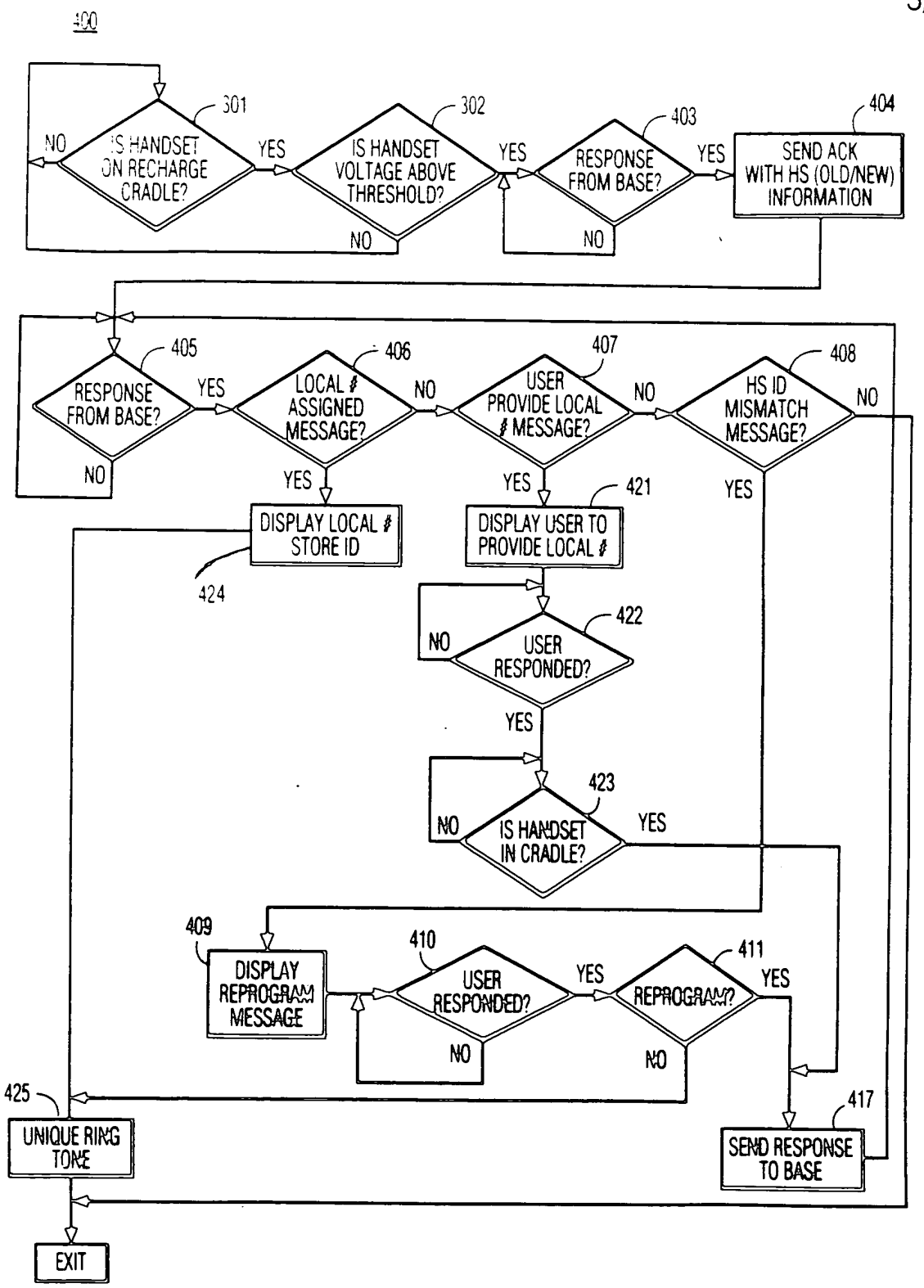
400
301
IS HANDSET ON RECHARGE CRADLE?
NO
YES
302
IS HANDSET VOLTAGE ABOVE THRESHOLD?
YES
NO
403
RESPONSE FROM BASE?
YES
NO
404
SEND ACK WITH HS (OLD/NEW) INFORMATION
405
RESPONSE FROM BASE?
YES
NO
406
LOCAL # ASSIGNED MESSAGE?
NO
YES
407
USER PROVIDE LOCAL # MESSAGE?
NO
YES
408
HS ID MISMATCH MESSAGE?
NO
YES
DISPLAY LOCAL # STORE ID
424
421
DISPLAY USER TO PROVIDE LOCAL #
422
USER RESPONDED?
NO
YES
423
IS HANDSET IN CRADLE?
NO
YES
409
DISPLAY REPROGRAM MESSAGE
410
USER RESPONDED?
YES
NO
411
REPROGRAM?
YES
NO
425
UNIQUE RING TONE
417
SEND RESPONSE TO BASE
EXIT

FIG. 4